

**California Department of Water Resources
Oroville Facilities Relicensing
Draft Issue Statements, Geographic Scopes and Resource Goals
Revised ~~July 10, 2001~~ August 14, 2001**

LAND USE

Issue Statement LU1:

What are the appropriate, compatible, and potential developmental and non-developmental uses of project lands especially for public use, public access, open space, recreational uses, watershed and natural resources protection/management, energy resources and cultural values in a way that integrates and respects: 1) resource constraints; 2) adjacent land uses; and 3) applicable plans (including the Forest Service, State, County, and City of Oroville land planning and zoning) and policies for project lands and adjacent lands?

Issues Addressed:

LUE1: Develop more areas for recreation

LUE2: Develop land access to far north side of lake

LUE3: Increase communication on issues relating to present DWR land usage around the lake area so it shifts from unused to recreational or appropriate public use.

LUE6: Forbid industrial use of State recreation lands

LUE7: Preservation of open/natural areas/greenbelts

LUE8: There is an interest in integrating recreation opportunities provided by the reservoir with those that could occur on adjacent national forest system lands. Uses need to be complementary with no unmitigated impact on heritage resources, and little if any impact on aquatic and terrestrial wildlife habitat or vegetative productivity. Opportunities could include boat in camping sites, trails from the reservoir to points of scenic or other interest and improvement of existing road access to the reservoir.

LME9: What are the effects on the natural environment and economic return of commercial livestock grazing.

Geographic Scope:

Area within the Oroville Facilities FERC Project boundary, contiguous properties, and other lands within 1/4 mile of the project boundaries.

Resource Goals:

1. Compliance of the Oroville Facilities with FERC regulations and orders.
2. Use of project lands in a way that is consistent with project objectives.
3. Use of project lands with consideration for consistency with the objectives of local plans and resource agency plans for the area as a whole and for the lands in the immediate vicinity of the project area.
4. Protection of areas with valuable natural, recreational and cultural resources.

5. Development of additional land uses including visitor access and recreational facilities on existing and new sites.
6. Siting of proposed land uses on project lands that considers objectives of local plans, and is consistent with sensitive resources, resource constraints, surrounding land uses, and linkages with the surrounding area's development pattern.
7. Encourage local agency to consider non-project land use impacts on project land uses, aesthetics, and environmental qualities when zoning land and considering approval development projects.
8. Utilize livestock grazing on project lands if appropriate to achieve land use and management objectives.

9. Avoid new uses for land that could potentially negatively affect current uses.

Existing Information:

- Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Butte County. 1996. Butte County General Plan. Oroville, California.
- Chartkoff, J. and B.W. Ritter. 1966. A Preliminary Report on Archaeological Survey Work Done in the Oroville Reservoir Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville Resource Inventory, Cultural Heritage Division, Sacramento.
- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DPR. 1999. Index to Historic and Archaeological Resources Owned by the California Department of Parks and Recreation. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- FERC Form 80 Recreation Use Data.
- Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.

- Jones and Stokes Associates. 1999. Archaeological Survey Report for the Proposed Feather River Bikeway Extension Phase II, Oroville, Butte County, California. MS on file at the Northeast Information Center, Department of Anthropology, California State University, Chico.
- Longhurst, W.M. Garton, E.O., Heady, H.F., and G.E. Conolly. 1976. The California deer decline and possibilities for restoration. Ann. Meet. West. Sec. Wildlife Society (Fresno, CA) 1976: 74-103.
- Mayer, K.E., and W.F. Laudenslayer Jr., eds. 1988. A guide to wildlife habitats in California. California Department of Fish and Game. 166 pp.
- Office of Historic Preservation. 2000. Historic Properties Directory for Oroville.
- Orlins, R.I. 1997. Cultural Resources Survey for Oroville Field Division Recreation Plan, Lime Saddle Campground. MS on file at the Department of Water Resources, Division of Environmental Services, Sacramento.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.
- Reynolds, F.L., Mills, T.J., Benthin, R., Low, A. 1993. Restoring Central Valley Streams: A Plan for Action.
- Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.
- Statewide Comprehensive Outdoor Recreation Plan.
- [DWR developed GIS database](#)
- [Mt Diablo grazing/fuel load management data](#)

Information Needed:

- [Develop GIS land use base map using existing data and site visits that illustrates the various types of uses and the sensitive resources in the project area.](#)
- Document existing [land uses, including](#) recreational use [through site visits, interviews with recreational users, and mapping.](#)
- ~~• Document recreational demand over term of next license through a recreation demand study that correlates existing use patterns to regional projections.~~
- Determine capacity and suitability of lands for recreational development [through an evaluation of compatibility with existing sensitive resources \(biological, cultural, etc.\) and existing and proposed adjacent land uses](#) respective to anticipated future recreational uses.
- [Document existing policies/programs to protect areas with valuable natural, recreational and cultural resources on project land.](#)
- Identify operational and access constraints [for future recreational uses.](#)

- Identify ~~land use/recreation~~ objectives and concerns of relicensing participants and the community.
- Identify local plan objectives, sensitive resources, and current development patterns at potential site locations.
- Identify local agencies upcoming planning development activities to determine their potential for impacting project land uses, aesthetics, and environmental qualities.
- Identify areas that could be utilized for grazing on project lands.
- Identify site locations of historical/archeological importance
- Review data on results of mixing bicycles and horses (i.e. safety and user preferences)

Issue Statement LU2:

What is the potential for acquiring or removing project lands (including other property interests) to meet resource goals?

Issues Addressed:

LUE4: Contact PG&E regarding property at Lime Saddle Marina, the 5 plus acres to add more parking available to public and add much needed road and entrance.

LUE5: Look at all PG&E lands adjacent to project.

LUE9: Potential for acquisition of federal lands (BLM and USFS) within project boundary by DWR.

LUE10: Potential for DWR to sell, for private development, some lands currently held by the State. This would get the lands back on tax rolls.

Geographic Scope:

Area within the Oroville Facilities FERC Project boundary, contiguous properties, and other lands within ¼ mile of the project boundaries.

Resource Goals:

1. Compliance of the Oroville Facilities with FERC regulations and orders.
2. Use of project lands and other lands that may be acquired in the project vicinity in a way that is consistent with project objectives.
3. Protection of lands contiguous to the project area that are strategically important for protecting valuable natural, recreational and cultural resources located within the project's current boundaries.
4. Incorporation of additional lands into the project area that are needed to provide for the development of new or expanded visitor and recreational facilities.
5. Acquisition or removal of lands including surplus lands within or nearby the project area after consideration for achievement of project operational goals, protection of resources or development of project visitor and recreational facilities and which have potential strategic importance as locations for development activities to meet community needs.

Existing Information:

- Aerial photography
- Available land use mapping
- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Butte County. 1996. Butte County General Plan. Oroville, California.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.

- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.
- [FERC rules and regs on land use, land management and resource protection](#)
- [State guidelines for land disposal and transfer](#)

Information Needed:

- [Document PG&E and other lands under consideration for acquisition through mapping and identification of sensitive resources.](#)
- Identify property actually needed for [operation and maintenance and resources protection of the Project.](#)
- [Identify land use needs relative to the development of new or expanded visitor and recreation facilities.](#)
- Identify land [use and](#) management objectives of relicensing participants [and the community.](#)
- [Evaluate cG](#)consistency [of any action](#) with federal, state, regional, and local plans/guidelines.
- Confirm [and map](#) existing ownership of lands.
- Document [and map](#) existing land uses and [identify](#) management [programs.](#)
- Document [through mapping](#) natural areas and sensitive resources (including wetlands and floodplains).
- Identify recreation suitability of project lands [through consideration of project effects upon sensitive resources, anticipated recreation demand, and other constraints \(access, ownership\) that may affect their suitability.](#)

LAND MANAGEMENT

Issue Statement LM1:

What are the funding and staffing needs to adequately address land management for the Oroville Wildlife Area, Lake Oroville State Recreation Area (LOSRA), Thermalito Afterbay, and other project lands?

Issues Addressed:

LME1: Evaluate existing facilities security. Lake security and fines – “user friendly”.

LME4: Are additional funds needed to augment the existing budget for the management of the Oroville Wildlife Area? Presently available Fish and Game funds are being dedicated to managing people and not wildlife habitat.

LME5: Are additional funds needed for law enforcement? Presently two-thirds of all the local game warden activities are spent on the Oroville wildlife area. An augmentation of funding for more wardens would free up time for other law enforcement activities outside of the wildlife area.

LME16: Provide an emergency boat for CDF

Geographic Scope:

Areas included within the Oroville Wildlife Area, LOSRA, and Thermalito Afterbay and other project lands.

Resource Goals:

1. Sufficient funding for full, fair and professional enforcement of the regulations at the Wildlife Area, LOSRA, and Thermalito Afterbay and to protect and manage resources and assure public safety.
2. Sufficient funding to assure proper clean-up and facilities maintenance
3. Sufficient funding to maintain and enhance the habitat within the Oroville Wildlife Area and LOSRA. (May overlap with Environmental Work Group issues statements and resource goals)
4. Sufficient funding to maximize responsible public use and access consistent with protection of natural and cultural resources.

Existing Information:

- Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Bryan, C. Horbson. 1987. Socioeconomic Impacts of Red Man (Operation Bass) Tournaments: A Research Report. University of Alabama, Tuscaloosa.
- Butte County. 1996. Butte County General Plan. Oroville, California.

- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.
- Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville Resource Inventory, Cultural Heritage Division, Sacramento.
- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- DWR. 1995. Lake Oroville Fisheries Habitat Improvement Plan. October.
- DWR. 2000. 1999 Lake Oroville Annual Report of Fish Stocking and Fish Habitat Improvements, February.
- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.

Information Needed:

- Document existing recreation facility land management staffing costs and costs related to maintaining equipment.
- Document existing recreation facility funding and the adequacy of this funding to meet projected future needs.
- Document existing project recreational facilities and wildlife area use and the land management maintenance costs associated with current use patterns.
- Document recreational demand over term of next license and project staffing and equipment needs to provide adequate land management, including security and management of wildlife habitat.

- Identify existing and future funding needs to meet land management needs at the Lake Oroville State Recreation Area, Oroville Wildlife Area, Thermalito Afterbay, and other project lands. Include historic data as available on funding and staffing utilization.
- Identify land management concerns and recreation objectives of relicensing participants and the community and any costs associated with these objectives.
- Evaluate cConsistency of existing land management staffing and funding with federal, state, regional, and local recreation plans, /guidelines, and practices.

Issue Statement LM2:

What are the existing and future fuel loads, fuel management practices, and coordination of fuel management activities for lands located within and adjacent to the project boundary to manage the risk of loss of property, lives, and natural resources?

Issues Addressed:

LME6: Fuel load on state lands – potential impact to habitat (wildlife and human)

LME7: There is an interest in management of national forest system lands located within and adjacent to the project area within the framework of the Forest Plan Amendment EIS. Management could include establishment of Defensible Fuel Profile Zones, prescribed burning or other activities compatible with the EIS.

LME10: Consequences on natural environment and adjacent land of fuel loading (current fire management practices)

LME14: Evaluate fuel loading in areas within the project area, including land along the Feather River below Oroville Dam through the Long Bar area and land near the Diversion Dam.

Geographic Scope:

Area within the Oroville Facilities FERC project boundary, contiguous properties, and other lands within ¼ mile of the project boundaries.

Resource Goals:

1. Development of a comprehensive understanding of fuel loads and fuel load issues on project lands and lands in the vicinity of the project area sufficient to identify risks, options, and a strategy for action.
2. In an integrated effort with appropriate agencies, manage fuel loads on project lands and on lands in the surrounding area to optimize for fire safety and the achievement of other objectives.

Existing Information:

- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Butte County. 1996. Butte County General Plan. Oroville, California.
- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.
- DFG (California Department of Fish and Game). 1995. Draft Plant List for the Oroville Wildlife management Area.
- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1983. Concerning the operation of the Oroville Division of the State Water Project for management of fish and wildlife. Department of Water Resources. Sacramento.

- DWR. 1995. Lake Oroville Fisheries Habitat Improvement Plan. October.
- DWR. 2000. 1999 Lake Oroville Annual Report of Fish Stocking and Fish Habitat Improvements, February.
- Longhurst, W.M. Garton, E.O., Heady, H.F., and G.E. Conolly. 1976. The California deer decline and possibilities for restoration. Ann. Meet. West. Sec. Wildlife Society (Fresno, CA) 1976: 74-103.
- Mayer, K.E., and W.F. Laudenslayer Jr., eds. 1988. A guide to wildlife habitats in California. California Department of Fish and Game. 166 pp.
- Painter, R.E., L.H. Wixom, and S.N. Taylor. 1977. An evaluation of fish populations and fisheries in the post-Oroville project Feather River. Sacramento. California Department of Fish and Game-Anadromous Fisheries Branch.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.
- Reynolds, F.L., Mills, T.J., Benthin, R., A. 1993. Restoring Central Valley Streams: A Plan for Action.
- Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.
- CDF and SBF (California Department of Forestry and Fire Protection and State Board of Forestry). 1999. The California Fire Plan
- [USFS Fuel Management Plan for Forest Lands \(check citation\)](#)
- [CDF Vegetation Management Plans](#)
- [\(cross reference to fuel loading issue in Environmental Work Group T11\)](#)

Information Needed:

- Identify [and map](#) areas [on lands within and adjacent to the project boundary where high fuel loads pose a](#) risk for loss of natural resources, property, or lives.
- Document [and map](#) property and natural resources in areas at risk [from high fuel loads using GIS information layers](#).
- Document ongoing fuel management practices [through incorporation of existing information and interviews with fuel management practitioners](#).
- Identify existing cooperative fuel management efforts in region and elsewhere [through consultations with fuel management bodies now serving the area](#).
- Identify [future](#) opportunities for fuel management cooperation in Project area.
- Confirm consistency of fuels management [activities](#) with existing management plans.

- Identify entities responsible for fuel load management on lands within and adjacent to the project boundary.
- Assess resource effects of fuel management alternatives through mapping of sensitive resources and evaluation of fuel management techniques on these resources.

Issue Statement LM3:

What is an appropriate arrangement for land management of recreation facilities of LOSRA, Thermalito Afterbay, Wildlife area and other project lands?

[\(check with Recreation Work Group to compare with similar issue in Rec. R5\)](#)

Issue Addressed:

LME8: There is an interest by Plumas National Forest in reviewing the arrangement to defer recreation management to the California Department of Parks and Recreation for the purpose of determining whether to continue, modify or terminate this agreement. The arrangement if continued needs to be formally documented and updated to reflect current management direction.

Geographic Scope:

Area within the LOSRA, Thermalito Afterbay, Wildlife area, and adjacent lands,

Resource Goals:

1. Operation of the LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will facilitate expansion of visitor and recreational facilities, is responsive to market demand, provide a stimulus to further local economic development, and be compatible with applicable management objectives.
2. Operation of LOSRA, Thermalito Afterbay, and Wildlife area facilities in a way that will be efficient, responsive to visitor needs, oriented toward increases in visitor numbers, visitor spending, and visitor satisfaction with their experience and be compatible with applicable management objectives.
3. Consider a written agreement between DPR and Plumas National Forest regarding the management of project lands within the Forest.

Existing Information:

- Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Butte County. 1996. Butte County General Plan. Oroville, California.
- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.
- Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- Kalenik, M. 1981. Lake Oroville State Recreation Area Resource Inventory Cultural Resources Update. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- LNF (Lassen National Forest). 2000. Website. PG&E's campgrounds, fishing access and picnic areas. Website: http://www.r5.fs.fed.us/lassen/lake_almanor.htm. July 2000.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.
- Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.
- Stratton, George. 1991. Recreation Guide to California National Forests. Falcon Press Publishing Co. Helena, MT.

Information Needed:

- Document the agencies with existing land management responsibilities at recreation facilities and the wildlife area staffing.
- ~~—Document existing recreation facility funding.~~
- Document existing recreational use of the areas under consideration through a recreation use study.
- Document recreational demand over term of next license through a recreation demand study.
- ~~—Integrate recreation objectives of relicensing participants and develop a recreation plan for the area.~~
- Identify relicensing stakeholder and community concerns with the existing arrangement for land management of recreation facilities.
- Evaluate consistency of the existing arrangement for land management of project recreation facilities with federal, state, regional, and local recreation plans, guidelines and practices.

Issue Statement LM4

What are appropriate law enforcement activities, security and penalties for project lands?

Issues Addressed:

LME1: Evaluate existing facilities security. Lake security and fines – “user friendly”.

LME4: Are additional funds needed to augment the existing budget for the management of the Oroville Wildlife Area? Presently available Fish and Game funds are being dedicated to managing people and not wildlife habitat.

LME5: Are additional funds needed for law enforcement? Presently two-thirds of all the local game warden activities are spent on the Oroville wildlife area. An augmentation of funding for more wardens would free up time for other law enforcement activities outside of the wildlife area.

LME 6: Fuel load on state lands – potential impact to habitat (wildlife and human)

LME15: Install warning system for water releases.

Geographic Scope:

Area within the Oroville Facilities FERC Project boundary.

Resource Goals:

1. Full, fair and professional establishment, promulgation, and enforcement of regulations to protect project facilities and resources and assure public safety.
2. Develop specific law enforcement goals that focus on problems endemic to the Project area in order to maximize public usage.

Existing Information:

- Barter, E.R. 1987. Sites Within the Boundaries of Lake Oroville State Recreation Area, Preliminary List, July 1987. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- BLM (Bureau of Land Management). 1993. Redding Resource Management Plan and Record of Decision. Redding, California.
- Butte County. 1996. Butte County General Plan. Oroville, California.
- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- City of Oroville. 1995. City of Oroville General Plan. Adopted October 3, 1995. Oroville, California.
- Dean Runyan Associates. 2000. Travel Impacts by County, 1992-1998. Prepared for the California Division of Tourism, Sacramento, CA. Sacramento, CA: Dean Runyan Associates.
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.

- DPR. 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- FERC Form 80 Recreational Use Data.
- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- Hines, P.W. and E.R. Barter. 1986. Recommendations for Archaeological Sites in Lake Oroville State Recreation Area. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- Kalenik, M. 1981. Lake Oroville State Recreation Area Resource Inventory Cultural Resources Update. MS on file at the Department of Parks and Recreation, Cultural Heritage Division, Sacramento.
- LNF (Lassen National Forest). 2000. Website. PG&E's campgrounds, fishing access and picnic areas. Website: http://www.r5.fs.fed.us/lassen/lake_almanor.htm. July 2000.
- PNF (Plumas National Forest). 1988. Land and Resource management Plan. USDA Forest Service.
- State Comprehensive Outdoor Recreation Plan.
- Steinstra, T. 2000. California Recreational Lakes and Rivers Second Edition. Foghorn Outdoors, Avon Travel Publishing, Inc., Emeryville, California.
- Stratton, George. 1991. Recreation Guide to California National Forests. Falcon Press Publishing Co. Helena, MT.
- [County court system citation records from park rangers, sheriffs, CHP, and game wardens \(and any other enforcement agencies within FERC boundary\)](#)
- [DWR Oroville Field Division security records](#)
- [Interagency agreements between law enforcement agencies \(areas of responsibility\)](#)

Information Needed:

- Document existing agencies with law enforcement responsibilities on project lands and the extent of that responsibilityfunding.
- Document existing law enforcement activities through interviews with law enforcement personnel and records.
- Identify existing and potential ~~future~~ law enforcement issues associated with ~~the~~ Project lands through review of historic crime statistics and interviews with law enforcement personnel.
- ~~Document recreational demand over term of next license.~~

- Consider whether existing funding and staffing would be adequate to meet future recreation demands upon law enforcement.
- Identify law enforcement and security concerns regarding project lands.~~management objectives of relicensing participants.~~
- Evaluate c~~Consistency~~ of law enforcement activities on project lands with federal, state, regional, and local management plans, guidelines, and practices.

AESTHETICS

Issue Statement A1:

What are the effects of reservoir drawdown on the visual quality at Lake Oroville and other project lands?

Issues Addressed:

AE6: Lake levels sink too low in the summer – ‘bathtub ring’

AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.

Geographic Scope:

Area within the viewshed of the Oroville Reservoir.

Resource Goals:

1. Improve (to the extent feasible within the project purposes and operational, legal, and environmental constraints) the appearance of the areas that are negatively affected by the reservoir drawdown.

Existing Information:

- Aerial and other photography.
- DWR (California Department of Water Resources) Initial Information Package Section 3.5 and associated information regarding reservoir levels.
- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.
- Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.
- Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.

- U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

Information Needed:

- Identify operational constraints on aesthetics enhancements.
- Identify key viewpoints for Project.
- Document visual character of the project area, as seen from identified key viewpoints.
- Identify opportunities for aesthetic enhancements.
- Identify appropriate seed mix and plants that could be used on Dam face.
- Assess resource effects of potential aesthetic enhancements.
- Document the success and cost of reservoir drawdown aesthetic enhancements efforts in the region and elsewhere.
- Assess opinions of various reservoir drawdown levels with respect to scenarios on aesthetics.

Issue Statement A2:

What are the effects of construction debris, garbage, and invasive species on the appearance of project lands?

Issues Addressed:

AE1: Need to establish debris collection program on regular schedule

AE2: Remove old railroad trestle and other debris from river.

AE3: Clean up shoreline, particularly adjacent to camping and public access areas. Use county prisoner-release programs, if necessary, to maintain clean shorelines.

AE4: Remove concrete and construction debris in Feather River including below the Fish Barrier dam, below the Table Mountain Bridge, below the Hwy 70 Bridge.

AE5: Dump areas used by DWR need to be removed.

AE15: Create work team to remove invasive, non-native plants (List A and B) from SWP and DWR areas.

Geographic Scope:

Area within the Oroville Facilities FERC Project boundary.

Resource Goals:

1. Clean up areas where there is litter and trash and to take appropriate actions that will help to minimize littering and illegal trash disposal in the future.
2. Remove or screen construction debris in visually sensitive areas where it substantially detracts from the aesthetic quality of the environment and the experience of visitors.
3. Manage project lands to minimize the aesthetic effects of noxious and invasive plant species.

Existing Information:

- DWR (California Department of Water Resources) Initial Information Package Section 3.5 and associated information regarding reservoir levels.
- California Department of Finance. 2000. City/County Population and Housing Estimates, January 1, 2000. Sacramento, CA: California Department of Finance.
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.

- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.
- Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.
- Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.
- U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

Information Needed:

- Document existing quantities and sources of debris and invasive plants on project lands, along with their effects on aesthetics (coordinate with Environmental Work Group Issue Sheet T8).
- Document existing debris removal and invasive plant management activities.
- Identify opportunities to enhance aesthetics by removing debris and managing invasive plant species.
- Assess appropriate approaches and resource effects of potential aesthetic enhancement measures on project lands.
- Link with LU1 to identify areas where benefits of noxious weeds (star thistle and bees) may be attained without compromising aesthetics.
- Explore new and innovative methods for legal and economically feasible control and management of noxious and invasive species (chemical, grazing)

Issue Statement A3:

~~What are the appropriate landscaping, restoration, preservation, vegetation and facilities management/maintenance programs for aesthetic enhancement of project lands? (Issue Statement A3 has been expressed as a resource goal for A4. All other information on this issue sheet has been moved to A4).~~

Issues Addressed:

~~AE10: Consider potential projects that could affect aesthetic nature of the project.~~

~~AE11: Day use park: water lines in the south side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings~~

~~AE12: Native plant landscaping (potential sites: Feather River fish Hatchery, State Parks Headquarters, DWR Field Office, Spillway Launch Facility – future) and restoration of native plant communities.~~

~~AE13: Replace landscaping at the Feather River Fish Hatchery and adjacent river areas.~~

~~AE14: Clean up old 'City' park adjacent to the north side of the Fish Barrier Dam, just north of the Fish Hatchery. Taken over by DWR when SWP was constructed, never re-opened. Provide picnic areas and restroom facilities. Turn over to City of Oroville.~~

~~AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.~~

Geographic Scope:

~~Area within the Oroville Facilities FERC Project boundary.~~

Resource Goals:

- ~~1. Preserve and restore existing vegetation and landscaping and to manage and maintain facilities to assure a high level of visual attractiveness on project lands.~~
- ~~2. Improve and maintain facilities landscaping.~~
- ~~3. Preserve native vegetation.~~
- ~~4.1. _____ Avoid negative aesthetic impacts of fuel load management.~~

Existing Information:

- ~~—DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.~~
- ~~—DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.~~
- ~~—DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.~~
- ~~—Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.~~
- ~~—PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.~~
- ~~—Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.~~

- ~~—Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.~~
- ~~U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.~~

Information Needed:

- ~~—Document existing landscaping, restoration, preservation, vegetation, and facilities management/maintenance programs for aesthetic enhancement of project lands.~~
- ~~—Identify opportunities and constraints to enhance the aesthetics of project lands by landscaping, restoration, preservation, vegetation, and facilities management/maintenance programs.~~
- ~~Assess resource effects of potential enhancement measures on project lands.~~

Issue Statement A4:

What are the effects of existing and future project features (including transmission lines, trails, etc) and land uses on the aesthetic quality of project lands?

Issues Addressed:

AE7: Camouflage the power line towers

AE8: Improve poorly maintained visitor center

AE9: Expand use of “low impact” signs

AE10: Consider potential projects that could affect aesthetic nature of the project.

AE11: Day use park: water lines in the south side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings

AE12: Native plant landscaping (potential sites: Feather River fish Hatchery, State Parks Headquarters, DWR Field Office, Spillway Launch Facility - future) and restoration of native plant communities.

AE13: Replace landscaping at the Feather River Fish Hatchery and adjacent river areas.

AE14: Clean up old ‘City’ park adjacent to the north side of the Fish Barrier Dam, just north of the Fish Hatchery. Taken over by DWR when SWP was constructed, never re-opened. Provide picnic areas and restroom facilities. Turn over to City of Oroville.

~~AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.~~

AE16: Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.

AE17: Effect of noise generated by project on aesthetics of environment.

AE18: Maintain trails in a manner that maximizes soil integrity, shade, wildflowers and other natural, aesthetic features.

Geographic Scope:

Area within the Oroville Facilities FERC Project boundary.

Resource Goals:

1. Modify or mitigate significant adverse visual effects.
2. Protect and enhance the project area’s aesthetic qualities.
3. Utilize environmentally sensitive methods to maintain aesthetic qualities of trails.
4. Maintain appropriate undeveloped and primitive aesthetic features in project area.
5. Maintain the ability to operate project facilities in a safe, efficient and economical manner.

4. Preserve and restore existing vegetation and landscaping and to manage and maintain facilities to assure a high level of visual attractiveness on project lands.

5. Improve and maintain facilities landscaping.

6. Preserve native vegetation.
7. Avoid negative aesthetic impacts of fuel load management.
8. Don't build ugly.
9. (add A3 issue statement as resource goal) Maintain the appropriate landscaping, restoration, preservation, vegetation and facilities management/maintenance programs for aesthetic enhancement of project lands.

Existing Information:

- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- *Trail management philosophy statements from backcountry horsemen of America (check with Ron Davis BCHA)*
- DFG (California Department of Fish and Game). 1965. Oroville Wildlife Area Resource Management Plan. Sacramento, California.
- DPR (California Department of Parks and Recreation). 1973. Lake Oroville State Recreation Area Resource Management Plan and General Development Plan. Cultural Heritage Division, Sacramento.
- DWR (California Department of Water Resources). 1993. Proposed Amended Recreation Plan for Lake Oroville State Recreation Area, Sacramento.
- Guthrie, R. 1997. Lake Oroville State Recreation Area: Recreational use study. California State University Chico Foundation. Department of Recreation and Parks Management.
- PG&E (Pacific Gas and Electric Company). 1997. Final Environmental Assessment for New License. Rock Creek-Cresta Hydroelectric Project. FERC No. 1962. Washington, D.C.
- Sawyer, John and Todd Keeler-Wolf, 1995. A Manual of California Vegetation. California Native Plant Society Press. 469 pp.
- Talbitzer, B. 1987. Butte County: An Illustrated History. Northridge: Windsor Publications, Inc.
- U.S. Department of Agriculture Forest Service. 1995. Landscape Aesthetics: A Handbook for Scenery management. Agricultural Handbook. Number 701.

Information Needed:

- Identify any existing project features and processes and policies that have significant adverse visual effects and options ~~consider proposals for strategic actions to modify or~~ mitigate those impacts.

- Assess visual impacts ~~of~~to existing project facilities and any new project facilities and processes and policies, and evaluate potential aesthetic enhancement measures.

ii

- Assess visual impacts ~~of~~on any proposed changes in land use or management on project lands and evaluate potential aesthetic enhancement measures.
- Document existing landscaping, restoration, preservation, vegetation, and facilities management/maintenance programs for aesthetic enhancement of project lands.
- Identify opportunities and constraints to enhance the aesthetics of project lands by landscaping, restoration, preservation, vegetation, and facilities management/maintenance programs.
- Assess resource effects of potential enhancement measures on project lands.

LAND USE, LAND MANAGEMENT, AND AESTHETICS ISSUES
Draft Issues List, Revised July 12, 2001

MAY 8 LIST		CONSOLIDATED ISSUES LIST	
LU E1	Develop more areas for recreation	LU 1	What are the appropriate, compatible, and potential developmental and non-developmental uses of project lands especially for public use, public access, open space, recreational uses, watershed and natural resources protection/management, energy resources and cultural values in a way that integrates and respects: 1) resource constraints; 2) adjacent land uses; and 3) applicable plans (including the Forest Service, State, County, and City of Oroville land planning and zoning) and policies for project lands and adjacent lands?
LU E2	Develop land access to far north side of lake		See LU1
LU E3	Increase communication on issues relating to present DWR land usage around the lake area so it shifts from unused to recreational or appropriate public use.		See LU1
LU E4	Contact PG&E regarding property at Lime Saddle Marina, the 5 plus acres to add more parking available to public and add much needed road and entrance.	LU 2	What is the potential for acquiring or removing project lands (including other property interests) to meet resource goals?
LU E5	Look at all PG&E lands adjacent to project.		See LU2
LU E6	Forbid industrial use of State recreation lands		See LU1
LU E7	Preservation of open/natural areas/greenbelts		See LU1
LU E8	There is an interest in integrating recreation opportunities provided by the reservoir with those that could occur on adjacent national forest system lands. Uses need to be complementary with no unmitigated impact on heritage resources, and little if any impact on aquatic and terrestrial wildlife habitat or vegetative productivity. Opportunities could include boat in camping sites, trails from the reservoir to points of scenic or other interest and improvement of existing road access to the reservoir.		See LU1
LU E9	Potential for acquisition of federal lands (BLM and USFS) within project boundary by DWR.		See LU2

LU E10	Potential for DWR to sell, for private development, some lands currently held by the State. This would get the lands back on County tax rolls.		See LU2
LM E1	Evaluate existing facilities security. Lake security and fines – “user friendly”.	L M 1	What are the funding and staffing needs to adequately address land management for the Oroville Wildlife Area, Lake Oroville State Recreation Area (LOSRA), Thermalito Afterbay, and other project lands? Also, see LM4
LM E2	Evaluate unpaved status of RR grade multi-use trail		See LU1
LM E3	Immediate access by public vehicles at Lakeland Boulevard to the old railroad grade area of the diversion pool with future consideration of improvements in that same area.		See LU1
LM E4	Are additional funds needed to augment the existing budget for the management of the Oroville Wildlife Area? Presently available Fish and Game funds are being dedicated to managing people and not wildlife habitat.	L M 4	What are appropriate law enforcement activities, security and penalties for project lands? Also, see LM1
LM E5	Are additional funds needed for law enforcement? Presently two-thirds of all the local game warden activities are spent on the Oroville wildlife area. An augmentation of funding for more wardens would free up time for other law enforcement activities outside of the wildlife area.		See LM1, LM4
LM E6	Fuel load on state lands – potential impact to habitat (wildlife and human)		See LM1, LM2
LM E7	There is an interest in management of national forest system lands located within and adjacent to the project area within the framework of the Forest Plan Amendment EIS. Management could include establishment of Defensible Fuel Profile Zones, prescribed burning or other activities compatible with the EIS.	L M 2	What are the existing and future fuel loads, fuel management practices, and coordination of fuel management activities for lands located within and adjacent to the project boundary to manage the risk of loss of property, lives, and natural resources? Also, see LU1, T11.
LM E8	There is an interest in reviewing the arrangement to defer recreation management to the California Department of Parks and Recreation for the purpose of determining whether to continue, modify or terminate this agreement. The arrangement if continued needs to be formally documented and updated to reflect	L M 3	What is an appropriate arrangement for land management of recreation facilities of LOSRA, Thermalito Afterbay, Wildlife area and other project lands?

	current management direction.		
LM E9	Commercial cattle grazing: return to project and impact to natural environment		See LU1
LM E10	Consequences on natural environment and adjacent land of fuel loading (current fire management practices)		See LM2, T11
LM E11	Comply with the Executive Orders 111988, Floodplain Management, and 11990, Protection of Wetlands		See LU1, T5
LM E12	Use site specific, integrated pest management approach to control forest pests, employing mechanical, cultural, biological, and/or chemical methods based on effectiveness, cost-efficiency, and protection of human health and environmental quality		See A3, T7, T8
LM E13	Water releases from Oroville Dam and downstream impacts (vegetation and properties)		See G1, G2, T3, T5
LM E14	Evaluate fuel loading in areas within the project area, including land along the Feather River below Oroville Dam through the Long Bar area and land near the Diversion Dam.		See LM2, T11
LM E15	Install warning system for water releases.		See LM4
LM E16	Provide an emergency boat for CDF		See LM1, LM4
AE1	Need to establish debris collection program on regular schedule	A2	What are the effects of construction debris, garbage, and invasive species on the appearance of project lands?
AE2	Remove old railroad trestle and other debris from river.		See A2
AE3	Clean up shoreline, particularly adjacent to camping and public access areas. Use county prisoner-release programs, if necessary, to maintain clean shorelines.		See A2
AE4	Remove concrete and construction debris in Feather River including below the Fish Barrier dam, below the Table Mountain Bridge, below the Hwy 70 Bridge.		See A2
AE5	Dump areas used by DWR need to be removed.		See A2
AE6	Lake levels sink too low in the summer – ‘bathtub ring’	A1	What are the effects of reservoir drawdown on the visual quality at Lake Oroville and other project lands?
AE7	Camouflage the powerline towers	A4	What are the effects of existing and future project features (including transmission lines, trails, etc) and land uses on the

			aesthetic quality of project lands? Also see A3
AE8	Improve poorly maintained visitor center		See A3, A4
AE9	Expand use of "low impact" signs		See A3, A4
AE10	Consider potential projects that could affect aesthetic nature of the project.	A3	What are the appropriate landscaping, restoration, preservation, vegetation and facilities management/maintenance programs for aesthetic enhancement of project lands? Also see A4
AE11	Day use park: water lines in the south side of the river between the Fish Barrier Dam and the Diversion Dam need to be installed to irrigate plantings		See A3
AE12	Native plant landscaping (potential sites: Feather River fish Hatchery, State Parks Headquarters, DWR Field Office, Spillway Launch Facility - future) and restoration of native plant communities.		See A3
AE13	Replace landscaping at the Feather River Fish Hatchery and adjacent river areas.		See A3
AE14	Clean up old 'City' park adjacent to the north side of the Fish Barrier Dam, just north of the Fish Hatchery. Taken over by DWR when SWP was constructed, never re-opened. Provide picnic areas and restroom facilities. Turn over to City of Oroville.		See A3
AE15	Create work team to remove invasive, non-native plants (List A and B) from SWP and DWR areas.		See A2
AE16	Re-seed face of Oroville Dam and perimeter of reservoir exposed during drawdown.		See A1, A3, A4
AE17	Effect of noise generated by project on aesthetics of environment.		See A3
AE18	Maintain trails in a manner that maximizes soil integrity, shade, wildflowers and other natural, aesthetic features.		See A4